

Title (en)

Method and device for detecting charged particles in a gas flow.

Title (de)

Verfahren und Vorrichtung zur Feststellung von geladenen Teilchen in einer Gasströmung.

Title (fr)

Procédé et dispositif de détection de particules chargées dans un courant de gaz.

Publication

EP 0385569 A3 19900912 (EN)

Application

EP 90300597 A 19900119

Priority

GB 8901238 A 19890120

Abstract (en)

[origin: EP0385569A2] The detection of charged debris in the gas flow path of an engine without the need to provide additional sensors intruding into the flow path is made possible by an integrated sensor. The integrated sensor is made by selecting from within the engine an existing sensor associated with the gas flow path and electrically isolating a portion of the sensor from the engine. This enables the isolated portion to be used in detecting charged particles in the gas flow path. In a preferred embodiment the existing sensor includes a housing which is isolated to form the charged particle detector. The integrated sensor can be connected to signal conditioning apparatus to produce signals indicative of the passage of charged particles in the vicinity of the sensor.

IPC 1-7

F02C 7/05; **G01N 27/60**

IPC 8 full level

F01D 21/00 (2006.01); **G01N 27/60** (2006.01)

CPC (source: EP)

F01D 21/003 (2013.01); **G01N 27/60** (2013.01)

Citation (search report)

- [A] US 4591794 A 19860527 - SHATTUCK ALAN B [US], et al
- [A] EP 0256846 A2 19880224 - STEWART HUGHES LTD [GB]
- [A] GB 1274193 A 19720517 - RICARDO & CO ENGINEERS

Cited by

AU680999B2; EP0874133A1; GB2274168A; AU655216B2; GB2274168B; US5760298A; WO2015057549A1; WO0008452A1; US10982561B2; WO9412872A1; WO9209886A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0385569 A2 19900905; **EP 0385569 A3 19900912**; **EP 0385569 B1 19960410**; DE 69026410 D1 19960515; DE 69026410 T2 19961128; GB 2227843 A 19900808; GB 2227843 B 19931027; GB 8901238 D0 19890315; GB 9001242 D0 19900321

DOCDB simple family (application)

EP 90300597 A 19900119; DE 69026410 T 19900119; GB 8901238 A 19890120; GB 9001242 A 19900119